SHARP SERVICE MANUAL

No. S79B1LC32DH57

LCD COLOUR TELEVISION

MODELS LC-32DH57E-GY
LC-32DH57RU-GY
LC-32DH57S-GY

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

OUTLINE

This Service Manual covers the differences from LC-32DH57E-BK/RU-BK/S-BK or other technical information, refer to the LC-32DH57E-BK/RU-BK/S-BK (No. S59Z3LC32DH57) Service Manual.

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

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SAFETY PRECAUTION

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

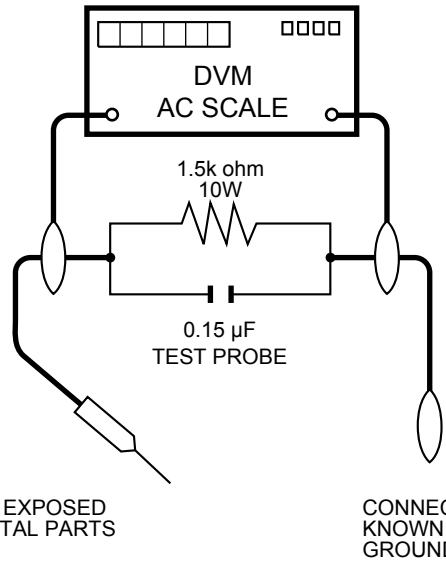
CAUTION:
FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE.
F7001, F7002 (3.15A/250V)

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

3. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
4. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 220~240 volt AC outlet.
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
  All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)
  Any reading of 1.05 V peak (this corresponds to 0.7 mA peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD color television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts List and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

Precautions for using lead-free solder

Employing lead-free solder

- “PWBs” of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

  Example:

Indicates lead-free solder of tin, silver and copper.

Indicates lead-free solder of tin, silver and copper.

Using lead-free wire solder

- When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

  As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

Soldering

- As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 C which is higher than the conventional lead solder by 40 C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

  Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

  If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

  When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

- Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description	Code
ZHNDAi123250E	J	0.3mm 250g (1roll)	BL
ZHNDAi126500E	J	0.6mm 500g (1roll)	BK
ZHNDAi12801KE	J	1.0mm 1kg (1roll)	BM

OUTLINE AND MODIFIED PARTS LIST

OUTLINE

This Service Manual covers the differences from LC-32DH57E-BK/RU-BK/S-BK or other technical information, refer to the LC-32DH57E-BK/RU-BK/S-BK (No. S59Z3LC32DH57) Service Manual.

MODIFIED PARTS LIST

Ref. No.	Description	LC-32DH57E-BK/RU-BK/S-BK **(Base Models)**	LC-32DH57E-GY/RU-GY/S-GY **(These Models)**	Remarks
PRINTED WIRING BOARD ASSEMBLIES				
N	MAIN Unit	DUNTKF111FM08	DUNTKF111FM08	No Change
N	LED Unit	DUNTKF115FM02	DUNTKF115FM02	No Change
N	KEY Unit	DUNTKF069FM05	DUNTKF069FM05	No Change
N	POWER Unit	DUNTKF063FM01	DUNTKF063FM01	No Change
N	INVERTER Unit	DUNTKF071FM04	DUNTKF071FM04	No Change
N	LCD CONTROL Unit	RUNTKA561WJZZ	RUNTKA561WJZZ	No Change
N	GND PWB Unit	RUNTKA550WJZZ	RUNTKA550WJZZ	No Change
LCD PANEL				
N	32" LCD Panel Module	R1LK315T3GW40Y	R1LK315T3GW40Y	No Change
CABINET PARTS				
Refer to Parts List.				
SUPPLIED ACCESSORIES				
Refer to Parts List.				
PACKING PARTS				
Refer to Parts List.				
Service Jigs				
No Change				

SHARP PARTS GUIDE

No. S79B1LC32DH57

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[1] PRINTED WIRING BOARD ASSEMBLIES

[2] LCD PANEL

[3] CABINET AND MECHANICAL PARTS

[4] SUPPLIED ACCESSORIES

[5] PACKING PARTS

[6] SERVICE JIGS

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

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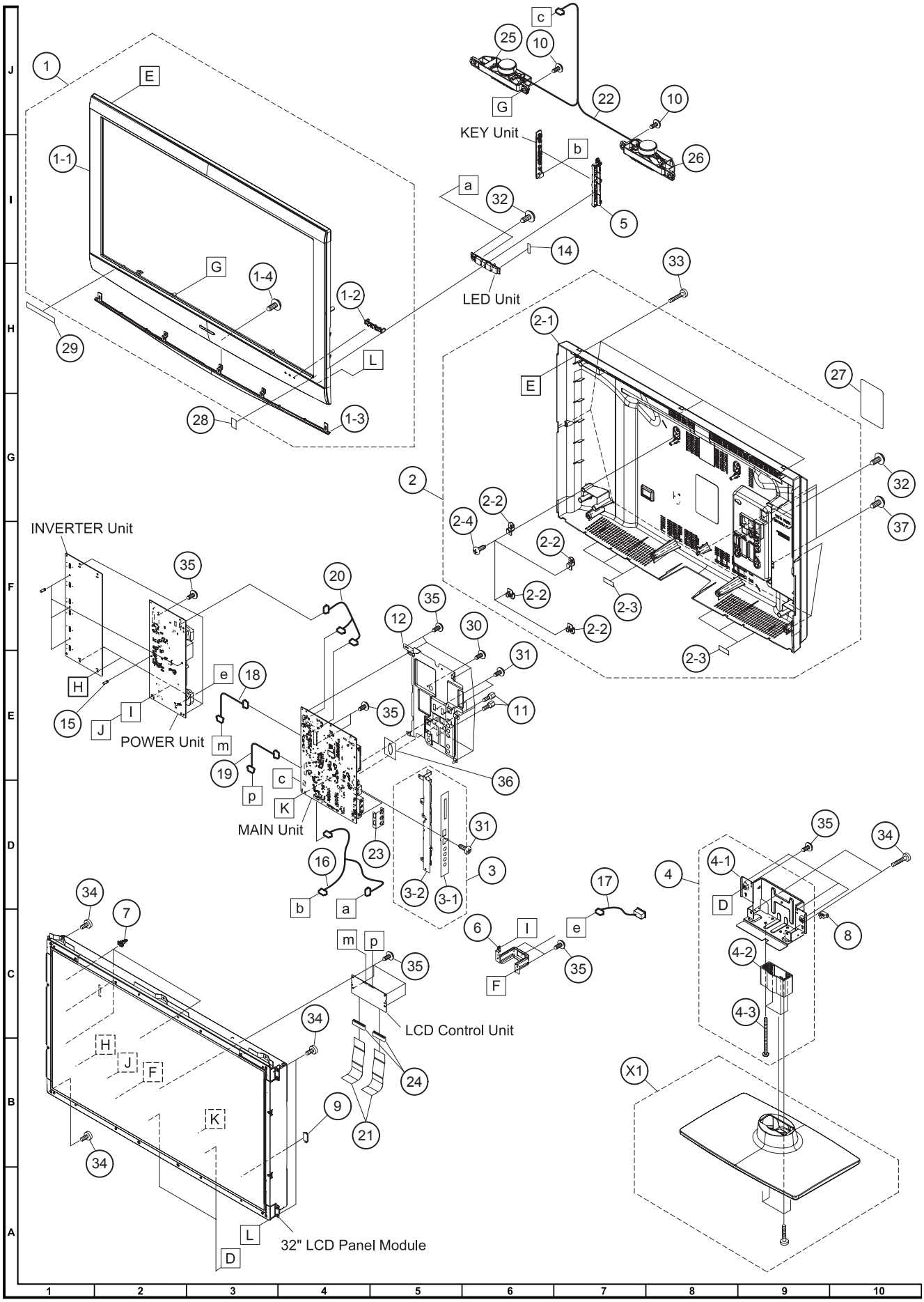
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES					
N	DUNTKF111FM08	CB		P	MAIN Unit (B3KU2H57CG)
N	DUNTKF115FM02	AH		P	LED Unit (B3KU2H57CJ)
N	DUNTKF069FM05	AP		P	KEY Unit (B3KU2A47CK)
N	DUNTKF063FM01	BH		V	POWER Unit
N	DUNTKF071FM04	BF		V	INVERTER Unit
N	RUNTKA561WJZZ	BK	N	P	LCD CONTROL Unit
N	RUNTKA550WJZZ	AR		V	GND PWB Unit
[2] LCD PANEL					
N	R1LK315T3GW40Y	CQ		P	32" LCD Panel Module

[3] CABINET AND MECHANICAL PARTS

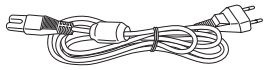


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] CABINET AND MECHANICAL PARTS					
1	CCABAC243WJ08	BD	N	P	Front Cabinet Ass'y
1-1	Not Available	–	N	–	Front Cabinet
1-2	Not Available	–	N	–	LED Cover
1-3	Not Available	–	N	–	Decoration
1-4	XEBS730P08000	AA		J	Screw
2	CCABBB470WJ01	BA	N	P	Rear Cabinet Ass'y
2-1	Not Available	–	N	–	Rear Cabinet
2-2	Not Available	–		–	VESA Holder, x4
2-3	Not Available	–	N	–	Spacer (0.5x10x30), x6
2-4	XEBS730P08000	AA		J	Screw (for VESA), x4
3	CANGKC130WJ01	AK		P	Terminal Angle Ass'y
3-1	Not Available	–		–	Terminal Label
3-2	Not Available	–		–	Terminal Angle
4	CANGKC165WJ02	AS	N	P	Stand Angle Ass'y
4-1	Not Available	–	N	–	Bottom Angle
4-2	Not Available	–	N	–	Support Angle
4-3	Not Available	–	N	–	Screw (4x55), x4
5	JBTN-A812WJ1A	AE	N	P	Control Button
6	LANGKC138WJFW	AF	N	P	AC Inlet Angle
7	LHLDFA036WJKZ	AB		J	Wire Holder, x4
8	LHLDWA143WJKZ	AC		J	Wire Holder
9	LHLDWA175WJUZ	AC		J	Wire Holder
10	LX-HZA003WJFN	AC		J	Screw (for Speaker), x2
11	NSFTZA243WJFN	AB		J	Shaft, x4
12	PSLDMB578WJFW	AL	N	P	Main PWB Shield
14	PSPAKA423WJKZ	AA	N	P	Spacer (0.3x3x8)
15	PSPANA032WJKZ	AC		J	Spacer (for PWB)
16	QCNW-J026WJQZ	AH		J	Connecting Cord (KM)
17	QCNW-J088WJQZ	AK		J	Connecting Cord
18	QCNW-J206WJQZ	AH	N	P	Connecting Cord (LP)
19	QCNW-J207WJQZ	AY	N	P	Connecting Cord (LW)
20	QCNW-J208WJQZ	AK	N	P	Connecting Cord (LB)
21	QCNW-J211WJQZ	AG	N	P	Connecting Cord, x2
22	QCNW-J550WJPZ	AH	N	P	Connecting Cord (SP)
23	QEARPA339WJFW	AC		P	Earth Plate
24	RCORFA064WJZZ	AE		P	Core (for LCD FFC), x2
25	RSP-ZA391WJZZ	AP		J	Speaker-L
26	RSP-ZA392WJZZ	AP		J	Speaker-R
27	TLABNC117WJZZ	AA		P	Model Label
28	TLABZB406WJZZ	AC		P	ECO Label (for Europe)
29	TLABZC169WJZZ	AF	N	P	POP Label (for Europe)
29	TLABZC170WJZZ	AF	N	P	POP Label (for Russia)
30	XBBS730P04000	AA		J	Screw (for Tuner)
31	XBPS830P06000	AA		J	Screw (for HDMI), x3
32	XEBS730P08000	AA		J	Screw, x2
33	XEBS740P16000	AA		P	Screw (for Rear Cabinet), x9
34	XEBSN40P10000	AB	N	J	Screw (for LCD Module), x6
35	XHPS730P06WS0	AA		J	Screw (for PWB Angle), x25
36	PSPAKA425WJKZ	AV	N	P	Spacer (for RS232C Terminal)
37	XHPS730P08WS0	AA		J	Screw (for Rear Cabinet), x3

[4] SUPPLIED ACCESSORIES

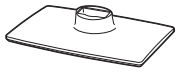
X3 Remote control unit

X2 AC cord



Product shape varies in some countries.

X1 Stand unit
X1-1, X1-2

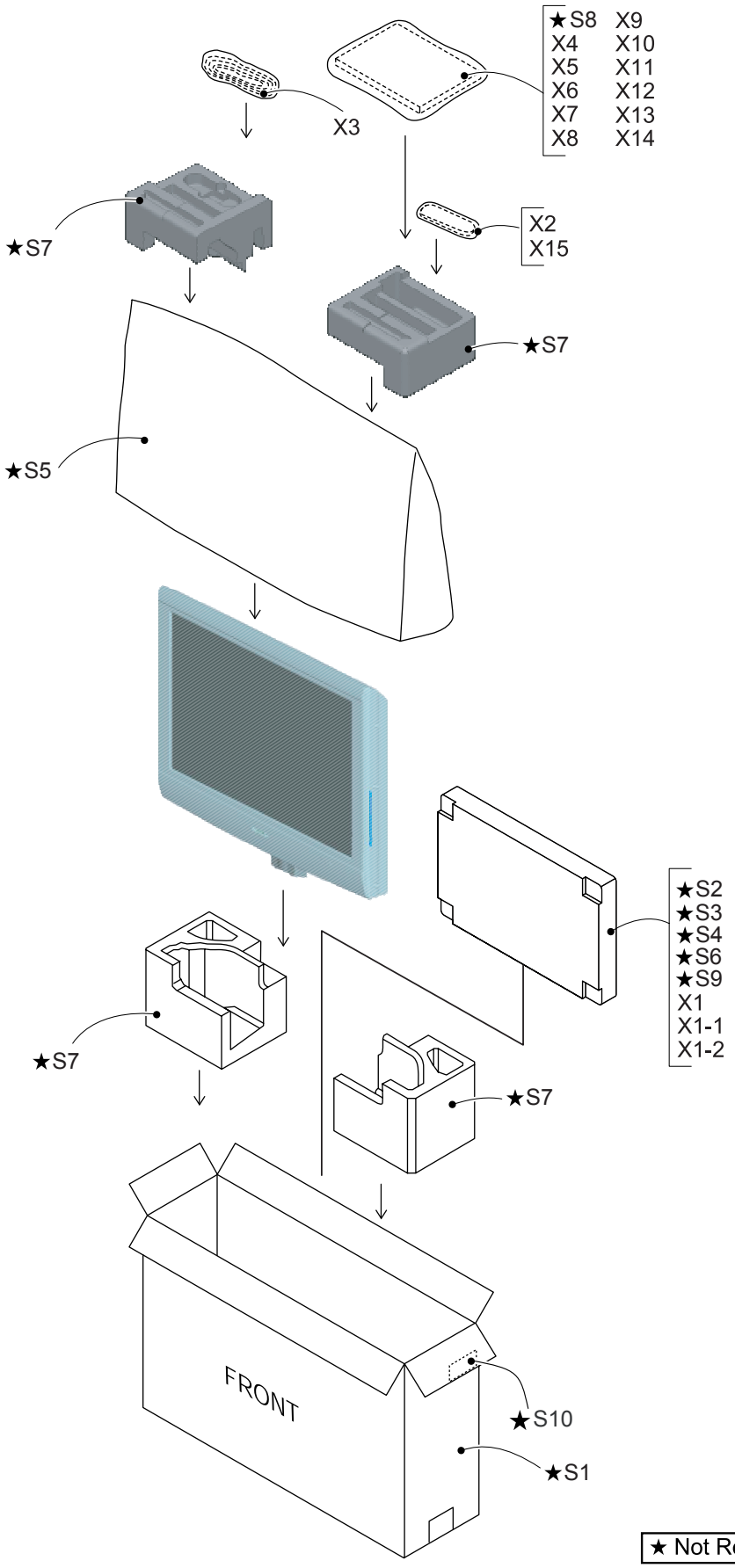


X11, X12, X13, X14
Operation manual (This publication)

X15
“AA” size zinc-carbon battery

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] SUPPLIED ACCESSORIES					
X1	CDAi-A542WJ08	BC	N	P	Stand Unit
X1-1	Not Available	-	N	-	Stand Base
X1-2	Not Available	-	N	-	Screw Ass'y
⚠ X2	QACCKA024WJPZ	AP		P	AC Cord (except U.K. and Ireland)
⚠ X2	QACCBA073WJPZ	AS		P	AC Cord (for U.K. and Ireland)
X3	RRMCGA779WJSA	AQ	N	P	Remote Control Unit
X4	TCAUSA034WJZZ	AA		P	Caution Sheet (for East Europe)
X5	TCAUZA222WJN1	AB		P	Caution Card (for Europe)
X6	TGAN-A801WJZZ	AB		P	Warranty Card (for U.K. and Ireland)
X7	TGAN-A077WJZZ	AE		J	Warranty Card (for Russia)
X8	TGAN-B078WJZZ	AB		P	Warranty Card (for East Europe)
X9	TGAN-B079WJZZ	AB		P	Warranty Coupon (for East Europe)
X10	TGAN-A802WJZZ	AB		P	AQUOS_Card Plan (for U.K. and Ireland)
X11	TiNS-E056WJZZ	AG	N	P	Operation Manual (for Europe except East Europe)
X12	TiNS-E059WJZZ	AC	N	P	Operation Manual (for Russia)
X13	TiNS-E057WJZZ	AH	N	P	Operation Manual (for Northern Europe)
X14	TiNS-E058WJZZ	AK	N	P	Operation Manual (for East Europe)
X15	Not Available	-		-	"AA" Size Battery

[5] PACKING PARTS (NOT REPLACEMENT ITEM)



★ Not Replacement item

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] PACKING PARTS (NOT REPLACEMENT ITEM)					
S1	SPAKCE791WJZZ	–	N	–	Packing Case
S2	SPAKAA373WJZZ	–		–	Cover Sheet
S3	SPAKFB838WJZZ	–	N	–	Mirror Mat Sup
S4	SPAKFB732WJZZ	–	N	–	Stand Case
S5	SPAKPA382WJZZ	–		–	Wrapping Paper
S6	SPAKPB304WJZZ	–		–	Mirror Mat Base
S7	SPAKXC379WJZZ	–	N	–	Packing Add.
S8	SSAKAA111WJZZ	–		–	Polyethylene Bag
S9	SSAKHA049WJZZ	–	N	–	Polyethylene Bag (for Screw)
S10	TLABM5584BMZZ	–		–	No. Label
[6] SERVICE JIGS					
N	QCNW-G616WJQZ	BK		J	Connecting Cord Main - LCD Control (LW)
N	QCNW-H347WJQZ	AY		J	Connecting Cord Main - LCD Control (LP)
N	QCNW-J413WJPZ	AQ		J	Connecting Cord Main - Speaker (SP)
N	QCNW-J415WJPZ	AT		J	Connecting Cord Main - Key/LED (RA/KM)
N	QCNW-J416WJQZ	CE		J	Connecting Cord LCD - LCD Control
N	QCNW-J835WJQZ	AY		J	Connecting Cord Main - Power (PD/LB)

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